



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45172

Entry Year 2019

Acreage: 1,867

County Mackinac

Management Area: Lake Michigan Shoreline

Revision Date: 2017-08-03

Stand Examiner: Matt Edison

Legal Description:

T43N-R9W Sections 15, 22, 23 & 26; Garfield Township

Identified Planning Goals:

There are several treatments within this compartment during this entry. There are four stands scheduled for clear-cut with reserve harvests to regenerate. Also, there is a large northern hardwoods stand to be select cut. There are some red pine plantations that have been planted and are to be monitored for regeneration concerns.

Soil and topography:

An escarpment running generally east and west essentially divides this compartment in half. The north half above the escarpment consist of gently rolling uplands. The area south and below the escarpment is cedar and lowland swamp. There are well drained sands and sandy loams in the uplands. There are poorly drained sands (Paquin-Spot & Wallace) and organic soils in the swamps (Leafriver-Croswell-Wainola).

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Hiawatha Sportsmen's Club is adjacent to the west. There are small private ownerships with permanent and seasonal homes along U.S. highway 2 to the south. The north and east of the compartment is bordered by state owned land. There is a private 40 acre parcel in the NENE of section 23.

Unique Natural Features:

There is a potential for rare, threatened or endangered plant and animal species and natural communities within this compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features:

There is one archaeological sit within this compartment. Proposed treatments present no concerns.

Special Management Designations or Considerations:

TransCanada and Enbridge Oil pipelines run east-west through this compartment. Canadian National Railroad runs through the compartment. Dune and Swale complex in large area below escarpment.

Watershed and Fisheries Considerations:

This compartment contains East Mile Creek which historically supported Brook Trout, Rainbow Trout, and Smelt runs. East Mile Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for East Mile Creek in areas susceptible to Aspen regeneration. For all other riparian areas, Best Management Practices should be followed.

Wildlife Habitat Considerations:

Compartment 172 is part of the Lake Michigan Management Area. Featured wildlife species include piping plover and white-tailed deer. The southern half of the compartment is part of deer wintering complex. Cedar and other lowland conifer cover dominate in the southern part of the compartment and provide wintering cover for deer. Cover will be maintained here to support wintering deer. Uplands further north primarily contain aspen, northern hardwoods, some mixed stands, and some red pine stands. Prescribed stands in deer wintering complex will be treated during the winter months (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer. Aspen stands vary in age class, providing for the various habitat requirements of ruffed grouse, American woodcock, snowshoe hare, and other wildlife. Diversity will be promoted in northern hardwood stands.

Mineral Resource and Development Concerns and/or Restrictions

A sand/gravel pit is located just over one mile to the west, in Section 17. Gravel appears to be limited in the area. There may be some dolostone potential within the compartment. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

Vehicle Access:

Vehicle access in this compartment is good. U.S. highway 2 runs through the compartment in the south. Mackinac County Road H-40 passes east-west through the center of the compartment. Beach Road is a public poor dirt road and bisects the compartment north-south. Ridge Road and No name Road are public poor dirt roads that offer access to the central and eastern parts of the compartment. There are numerous two tracks and pipeline roads that offer good access to the interior portions of the compartment. During the winter, portions of the pipeline and two tracks in the north are part of the state snowmobile trail system.

Survey Needs:

None needed this entry.

Recreational Facilities and Opportunities:

Hunting of big and small game is very common in this compartment. Fishing is less common, but has been known to occur in this compartment. A state snowmobile trail and numerous two-tracks offer good opportunities for snowmobile and ORV enthusiasts. There is a sand pit on Beach Road that is frequently used as a non-designated shooting range.

Fire Protection:

This compartment is close to the Naubinway Field Office, which would allow for quick initial attack response. Heavy recreational use within this compartment increases the number of potential ignition sources. A concern for fire units would be safely dealing with the pipelines during suppression efforts. East Mile Creek and Lake Michigan could both be used as water sources. Also, The Black River is just to the East of this compartment. Any fire below the escarpment in the cedar swamp areas would present access and mop-up concerns.

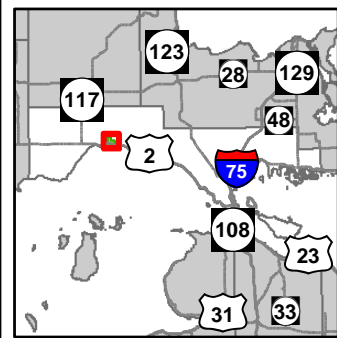
Additional Compartment Information:**The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

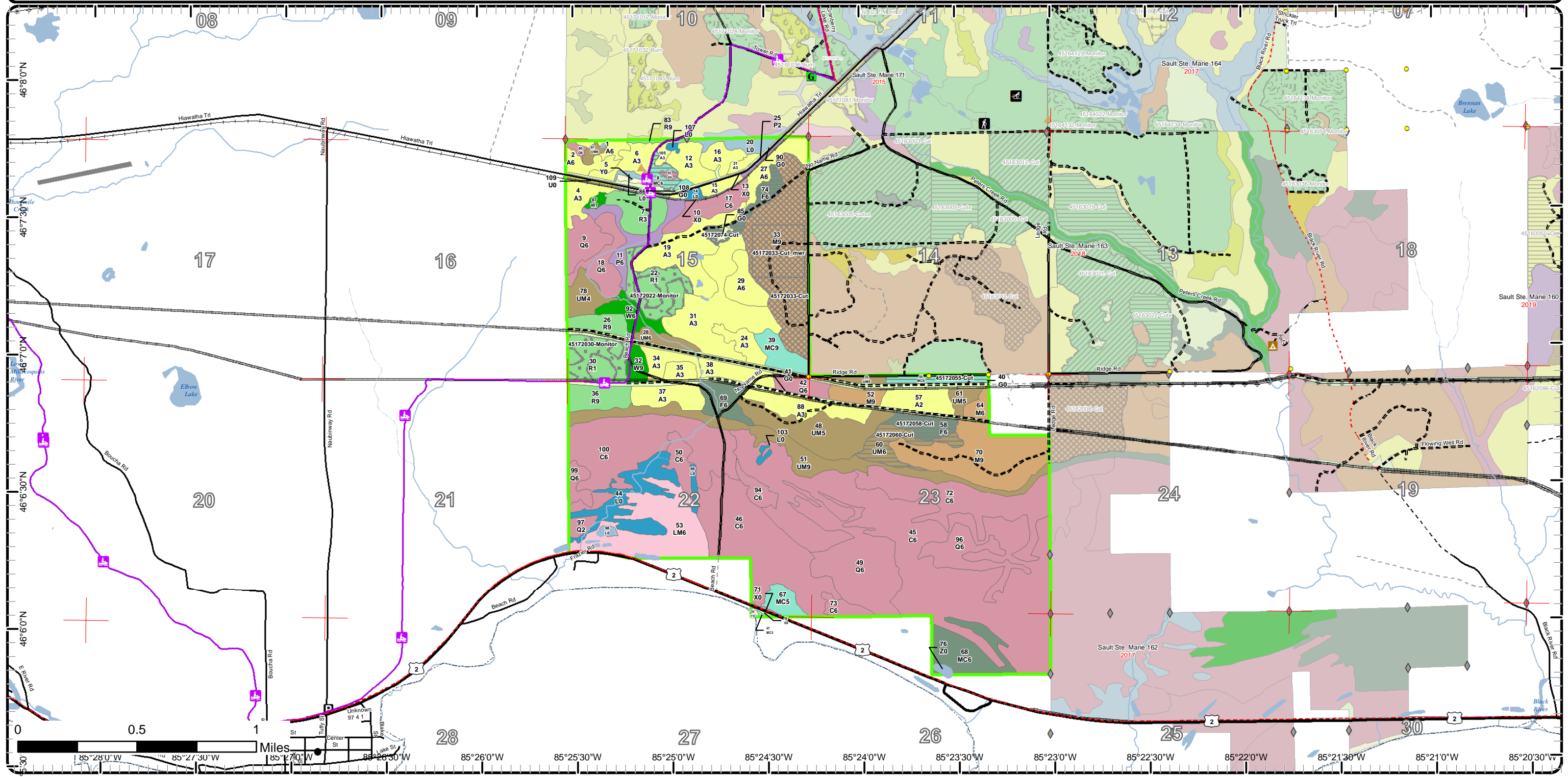
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

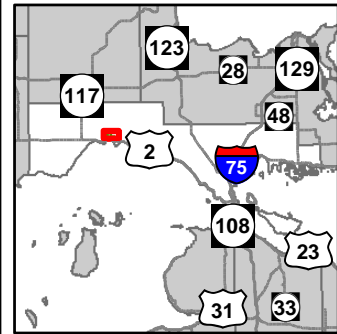


Compartment: 172
 T43N, R09W, Sec: 15, 22, 23, 26
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Lake Michigan
 Shoreline
 YOE: 2019
 Acres: 1,867 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 8/10/2018
 Map Phase: Post Review

- Miris Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
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- - - Designated ORV Route
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- ▲ Berms
- ▲ Gate
- ▲ Campground
- City
- P Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 710 - Sand/Soil
- Lakes

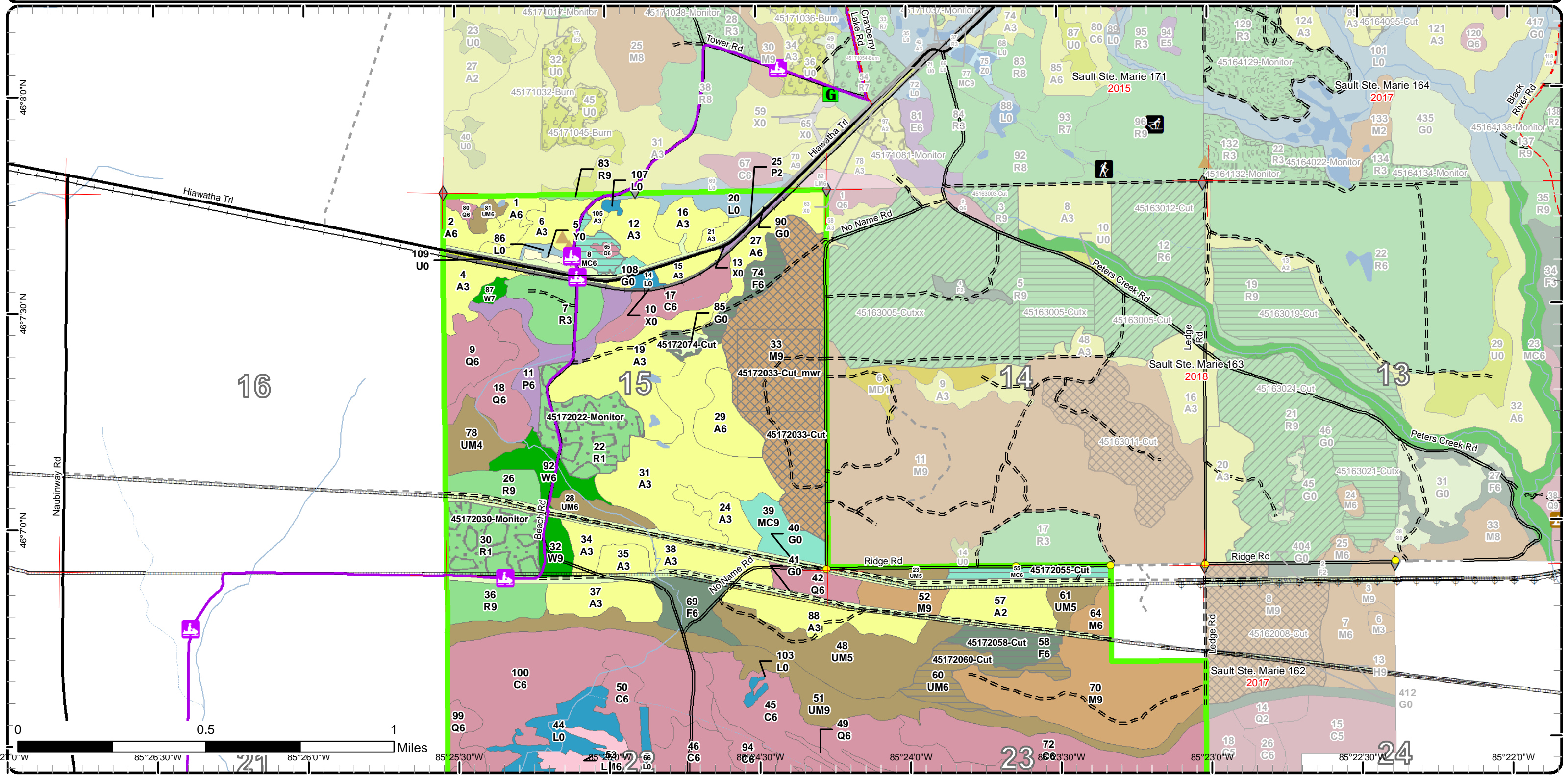


Cover Type & Treatments Map



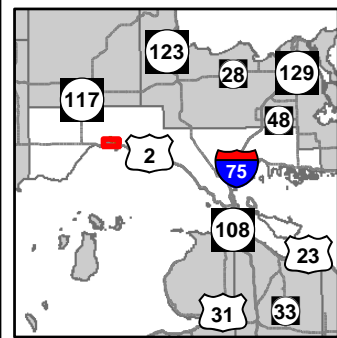
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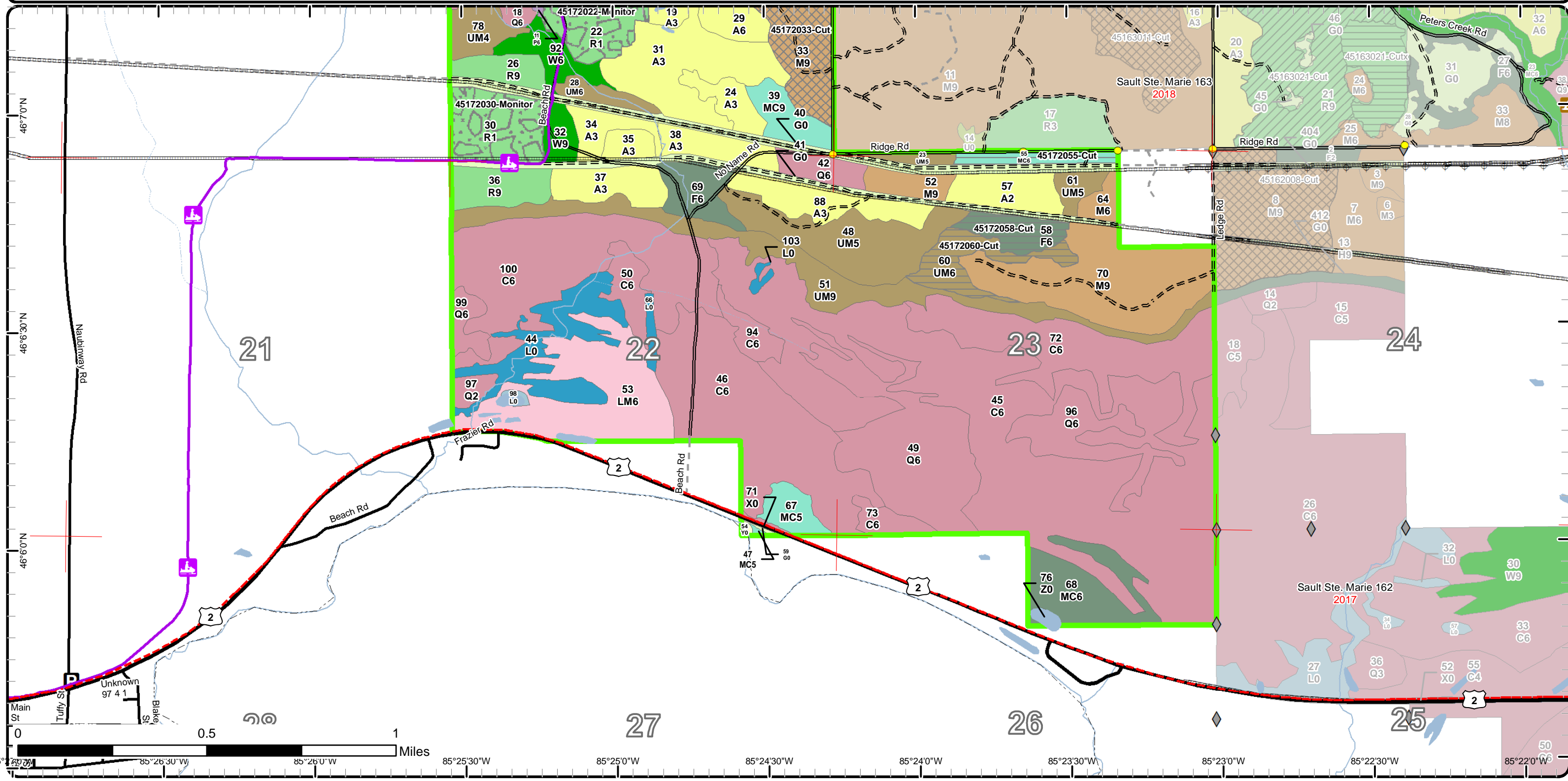


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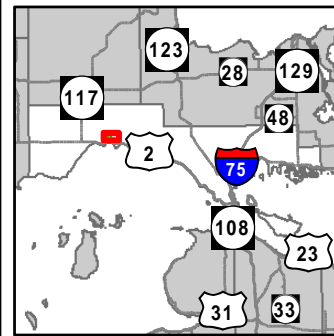


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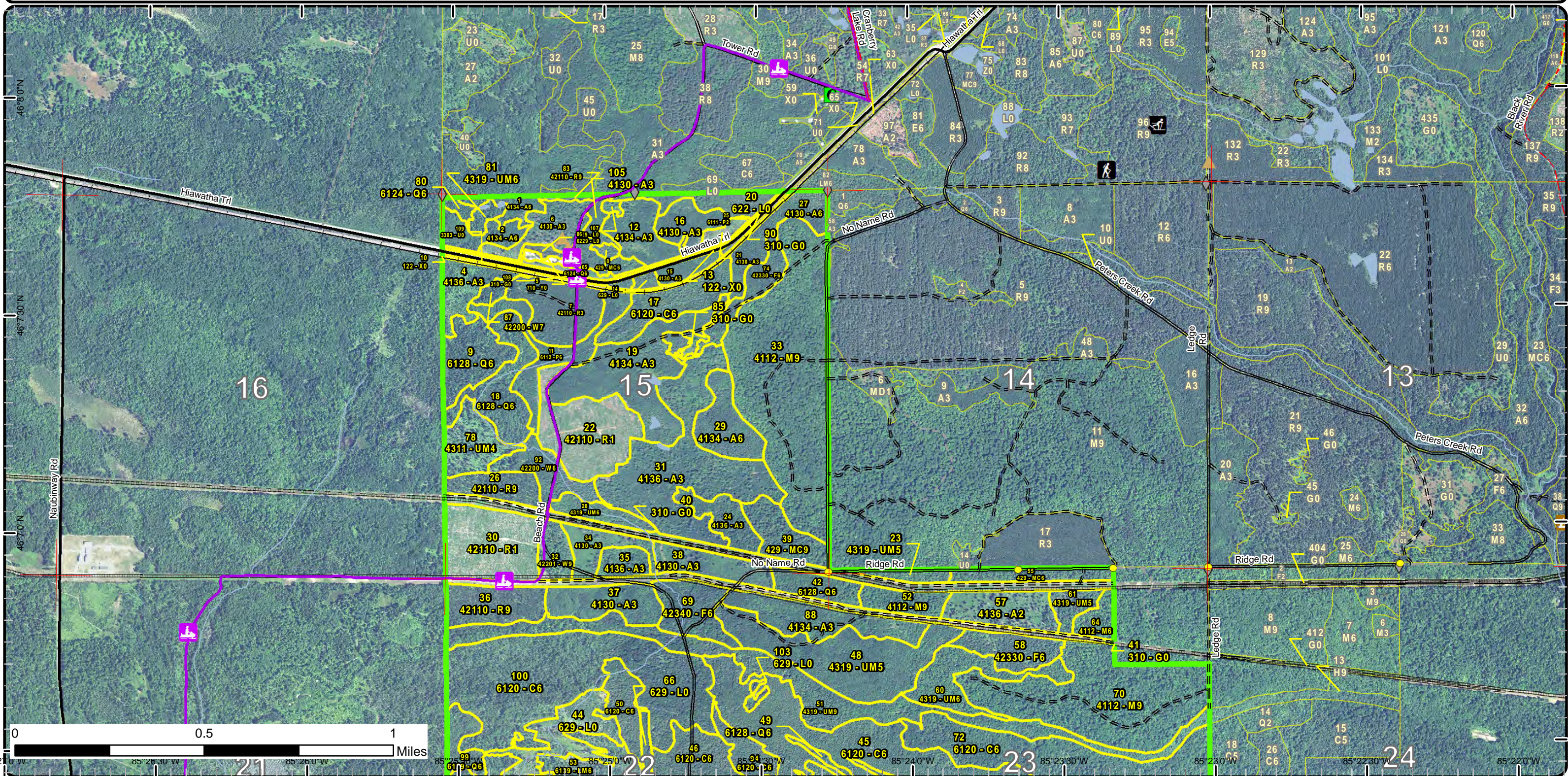


Stand Boundary Map

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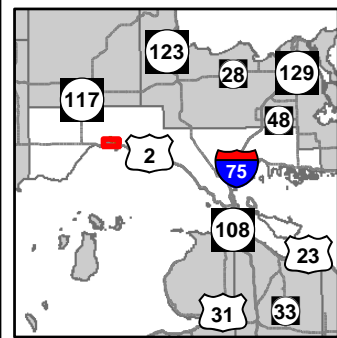


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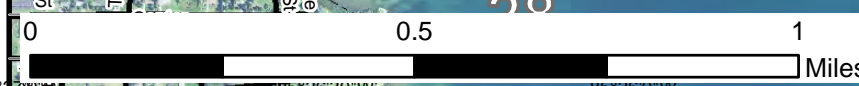
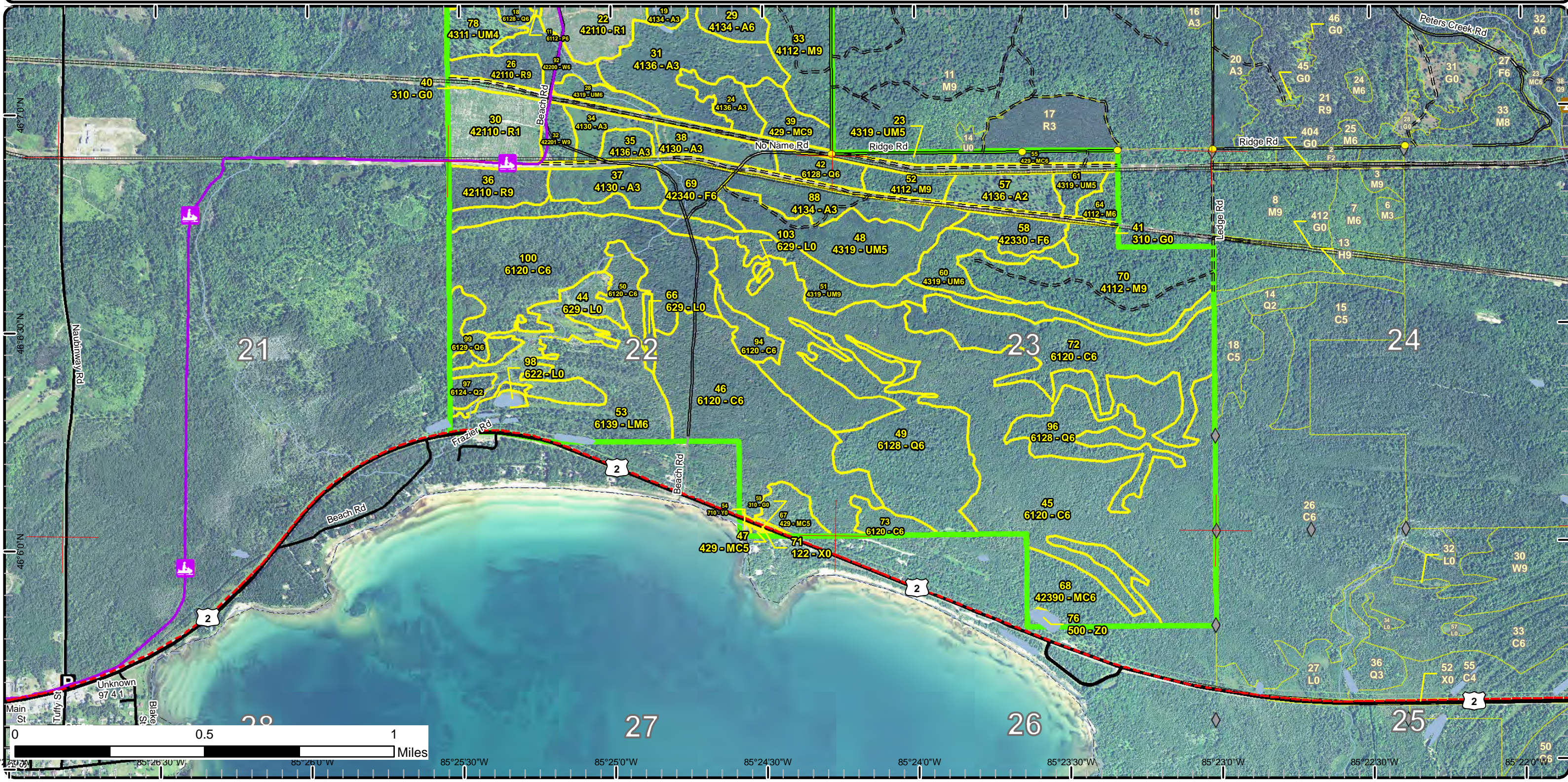


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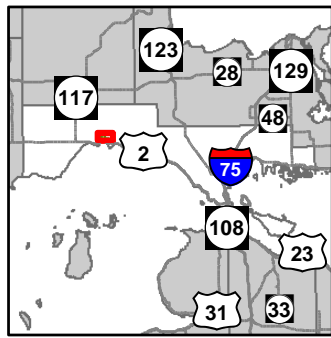
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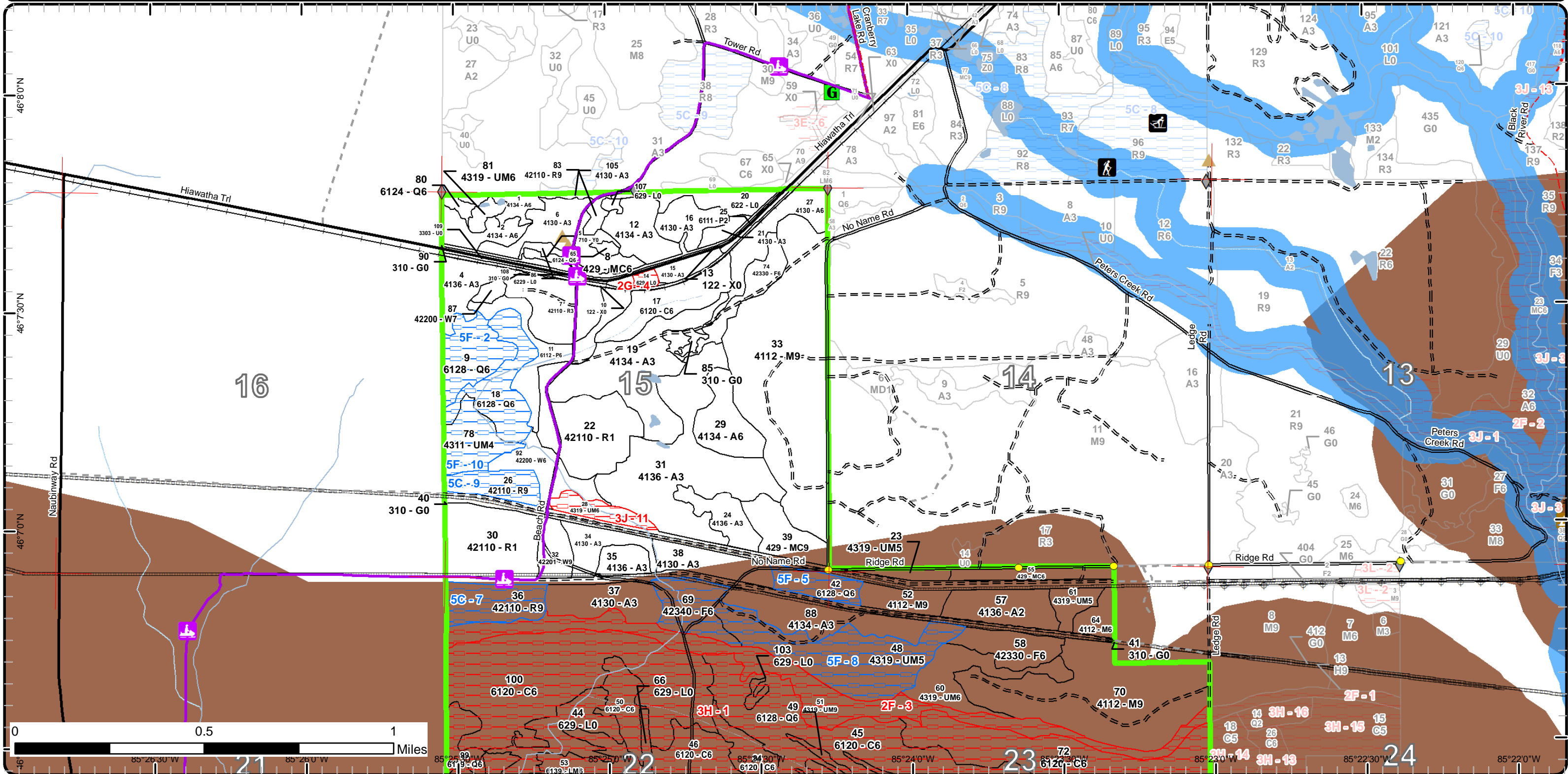
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Special Conservation Areas & Site Conditions Map

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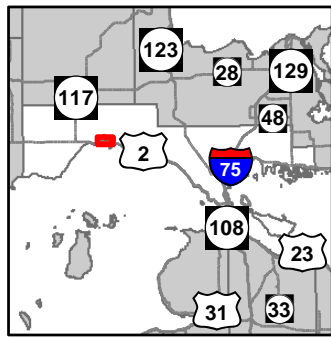


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

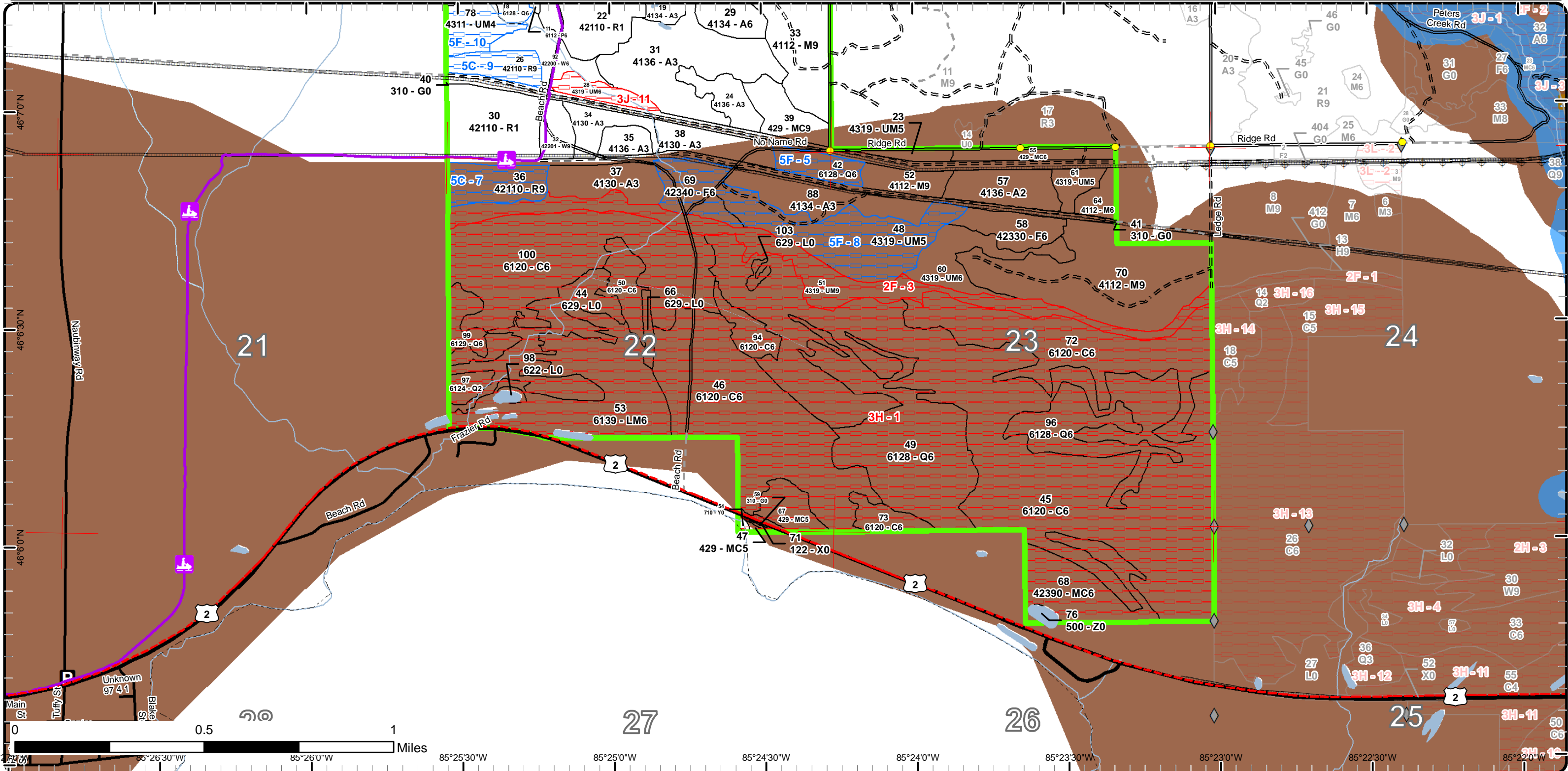


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- State Forest Campground
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	57	117	86	30	16	0	0	0	0	0	0	0	0	0	0	0	0	306
Cedar	0	0	0	0	0	0	0	0	0	9	0	296	207	0	8	0	0	68	588
Herbaceous Openland	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	0	19	2	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	0	0	0	0	7	1	0	32	18	80	29	0	0	0	0	0	166
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	64
Lowland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185	185
Red Pine	0	60	0	21	0	0	0	0	0	30	0	0	0	0	0	0	0	0	111
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	11	0	8	0	0	0	0	33	0	0	0	0	24	76
Upland Mixed Forest	0	0	0	45	10	0	31	0	0	71	0	0	0	0	0	0	0	0	156
Upland Spruce/Fir	0	0	0	16	0	13	13	0	0	0	0	0	0	0	0	0	0	0	42
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	3	14	0	0	0	0	0	0	0	8	24
Total	126	117	117	168	59	42	51	9	3	156	82	376	269	0	8	0	0	285	1865



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2019

Compartment 172
Total Compartment Acres: 1,867

Acres of Harvest

Commercial Harvest - 160
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	0	97	0	0	0	0	0	0	0	97
Upland Conifers	17	0	0	0	0	0	0	0	0	17
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
Upland Spruce/Fir	26	0	0	0	0	0	0	0	0	26
Total	63	97	0	0	0	0	0	0	0	160

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	160	0	0	0	0	0	60	0	0	221
Next Step	0	0	0	0	0	92	283	0	0	375
Total	160	0	0	0	0	92	344	0	0	596



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	45172008-Cut	7.5	429 - Mixed Upland Conifers	Poetimber Well	64	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Harvest leaving White Pine and Cedar. Leave representative trees of current species as appropriate.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of aspen, maple, balsam fir, birch, cedar, spruce, pine, or cherry.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

22	45172022-Monitor	31.3	42110 - Planted Red Pine	Sapling Poor	3	Immature	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step ; Monitoring, Herbicide Use; Pesticide, Aerial; Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use; Pesticide, Aerial

Treatments:

Acceptable RP

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 01/09/2017

30	45172030-Monitor	29.0	42110 - Planted Red Pine	Sapling Poor	3	Immature	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step ; ; ; ; Monitoring, Herbicide Use; Pesticide, Aerial

Treatments:

Acceptable RP

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 12/27/2017

33	45172033-Cut	66.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin lightly to approximately 80 ba. Focus on releasing existing poles and relatively smaller diameters.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Maple, Birch, Yellow Birch, Cherry, Aspen, Hemlock, Aspen.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
33	45172033-Cut_mwr	30.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	84	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	Completed - Pending Edits

Habitat Cut: No**Site Condition:**

Prescription Group selection harvest conducted by Mike Walter's research team. This stand will be harvested leaving all tops greater than 8".
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable northern hardwoods
Regen:

Other
Comment:

Proposed Start Date: 10/01/2016

55	45172055-Cut	9.7	429 - Mixed Upland Conifers	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest stand while leaving white pine and representation of current species. Mark some maple to be reserved. Winter harvest.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any mix of aspen, birch, balsam/spruce, pine, cherry, cedar, or maple.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

58	45172058-Cut	13.4	42330 - Upland Fir	Poletimber Well	51	111-140	Harvest	Clearcut with Retention	42340 - Upland Spruce/Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest stand and leave all Hemlock. Also, retain a representation of current existing species by leaving a tree approximately every 80-100'.
Specs: Winter harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any mix of aspen, birch, maple, cherry, balsam fir, spruce, hemlock, cedar, or pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

60	45172060-Cut	19.5	4319 - Mixed Upland Forest	Poletimber Well	56	141-170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest stand and leave all Hemlock. Also, retain a representation of current existing species by leaving a tree approximately every 80-100'.
Specs: Winter harvest.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any mix of aspen, birch, maple, cherry, balsam fir, spruce, hemlock, cedar, or pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
74	45172074-Cut	12.9	42330 - Upland Fir	Poletimber Well	49	141-170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Harvest leaving representative trees of current species at appropriate spacing, approximately 1 tree every 80-100'
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any mix of aspen, balsam/spruce, birch, maple, cherry, pine, cedar, or hemlock.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 220.7**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 172

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	5F	2F	2G	3H	3J	
308	308	0	0	Aspen							
587	19	0	568	Cedar					568		
55	55	0	0	Herbaceous Openland					0		
1	1	0	0	Low-Density Trees							
21	21	0	0	Lowland Aspen/Balsam Poplar							
166	3	49	114	Lowland Conifers		49			114		
64	0	0	64	Lowland Mixed Forest					64		
57	13	0	44	Lowland Shrub				2	42		
185	185	0	0	Northern Hardwood							
111	83	28	0	Red Pine	28						
2	2	0	1	Sand, Soil					1		
75	31	0	44	Upland Conifers					44		
157	34	60	63	Upland Mixed Forest		60	56				8
43	26	16	0	Upland Spruce/Fir		16					
10	9	0	1	Urban					1		
1	0	0	1	Water					1		
25	25	0	0	White Pine							
1,867	814	154	900	Total Forested Acres	28	126	56	2	834	8	
	44%	8%	48%	Relative Percent							

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	835	3G: Other Influence zones - See comments	1C: Other dept or div proc/practices	Unspecified	Unspecified
Comments:							
Large area site condition covering area below large escarpment. Lots of variable lowland with wet seeps and poor quality timber. Traditionally a hands off area with dune and swale environment mixed within a large portion of the area covered.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 172

Year of Entry: 2019

2	Available	5F: Evaluated for Forest Health Considerations	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	56	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5F: Evaluated for Forest Health Considerations	10	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5F: Evaluated for Forest Health Considerations	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matt Edison : Examiner

Compartment: 172

Year of Entry: 2019

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5F: Evaluated for Forest Health Considerations	36	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 172
Year of Entry: 2019

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	Poletimber Well	5.6	34	111-140	Good looking mixed stand. Check in 10 years for potential harvest. Aspen still smaller pole size, some submerchantable.
2	4134 - Aspen, Spruce/Fir	Poletimber Well	9.1	34	51-80	Complete species mix of pole/sapling regeneration. Some areas of low wet ground with cedar.
4	4136 - Aspen, Mixed Conifer	Sapling Well	12.1	15	Immature	Stand of mixed regeneration following harvest. Cut in 2003. 45-111-00-01 "Swirled Stump Aspen". Good looking regeneration. Some areas of wet mixed in. Scattered residual White Pine.
6	4130 - Aspen	Sapling Well	13.1	4	Immature	Cut in 2014, 45-108-09-01 "Derek's Debut". Good looking Aspen regen. Scattered Large WP left.
7	42110 - Planted Red Pine	Sapling Well	21.1	24	141-170	R3 that is about 6 inches, not quite 2 stick average heights. Check in 10years for 3rd row thin.
8	429 - Mixed Upland Conifers	Poletimber Well	7.5	64	111-140	Mature stand of aspen and mixed conifer. Scattered large white pine.
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.7	91	Unspecified	
11	6112 - Lowland Aspen	Poletimber Well	19.3	37	141-170	Immature Aspen with pockets of mixed lowland conifer in wetter areas.
12	4134 - Aspen, Spruce/Fir	Sapling Well	13.9	15	Immature	Stand of mixed regeneration following harvest. Cut in 2003. 45-111-00-01 "Swirled Stump Aspen". Good looking regeneration. Some areas of wet mixed in. Scattered residual White Pine.
15	4130 - Aspen	Sapling Well	6.0	15	Unspecified	Stand was cut in 2003. #45-111-00-01. "Swirled Stump Aspen".
16	4130 - Aspen	Sapling Well	10.1	15	Immature	Cut in 2003. 45-111-00-01 "Swirled Stump Aspen". Very good looking aspen regen.
17	6120 - Lowland Cedar	Poletimber Well	19.0	107	Unspecified	Low and cedar mix, tag alder in wettest places.
18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	21.5	89	141-170	Smaller sized mixed conifer in cedar. Quite low in places with floor of sphagnum moss. Drainage runs through the stand.
19	4134 - Aspen, Spruce/Fir	Sapling Well	39.7	28	Immature	Mixed menagerie of upland species regeneration. Nice looking stand that is stocked nicely. Scattered white pines within small openings. Stand was cut in 1990. 45-016-89-01 "Beach Road Aspen Sale".
21	4130 - Aspen	Sapling Well	3.2	4	Immature	Cut in 2014, 45-108-09-01 "Derek's Debut". Nice Aspen mixed regen.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42110 - Planted Red Pine	Sapling Poor	31.3	3	Immature	Cut in 2011-12. 45-115-09-01 "Pinus Pipelineus". Planted in 2015. Successful release spray 9/19/17.
4319 - Mixed Upland Forest	Poletimber Medium	4.4	55	81-110	
4136 - Aspen, Mixed Conifer	Sapling Well	10.7	16	111-140	
6111 - Lowland Balsam Poplar	Sapling Medium	1.6	40	Unspecified	
42110 - Planted Red Pine	Sawtimber Well	11.1	81	111-140	Thinned in 2011-12. 45-115-09-01. "Pinus Pipelineus"
4130 - Aspen	Poletimber Well	15.4	30	Immature	
4319 - Mixed Upland Forest	Poletimber Well	7.6	51	111-140	Buffers stream. small dia. Good stand to leave for buffer.
4134 - Aspen, Spruce/Fir	Poletimber Well	16.2	45	Unspecified	
42110 - Planted Red Pine	Sapling Poor	29.1	3	Immature	Cut in 2011-12. 45-115-09-01 "Pinus Pipelineus". Planted in 2015. Successful release spray 9/9/17.
4136 - Aspen, Mixed Conifer	Sapling Well	61.9	16	111-140	
42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	8.3	55	111-140	
4112 - Maple, Beech, Cherry Association	Sawtimber Well	97.4	84	81-110	Stand has areas of predominantly large trees. Overall basal area is not extremely high, but a light thinning would be good, releasing some of the pole sized trees to promote a more uneven-aged system. Promote any Yellow Birch.
4130 - Aspen	Sapling Well	10.5	4	Immature	Cut in 2014. 45-108-09-01 "Derek's Debut". Mixed regeneration that looks good. Scattered White Pine.
4136 - Aspen, Mixed Conifer	Sapling Well	6.4	26	Immature	Aspen regeneration from cut in 1990. 45-004-90-01 "rifle Range Sale". Good looking aspen with usual mix. A few scattered large WP throughout.
42110 - Planted Red Pine	Sawtimber Well	17.0	81	111-140	Thinned in 2011-12. 45-115-09-01 "Pinus Pipelineus"
4130 - Aspen	Sapling Well	17.5	26	Immature	Aspen with balsam/ mixed deciduous mix. regeneration from cut in 1990. 45-004-90-01 "Rifle Range Sale".



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4130 - Aspen	Sapling Well	13.6	4	Immature	Good looking Aspen regeneration from cut in 2014. 45-108-09-01 "Derek's Debut".
39	429 - Mixed Upland Conifers	Sawtimber Well	14.0	83	81-110	Mixed Conifer stand with some nice Hemlock. Was thinned last entry to promote Hemlock and WP regeneration. Representative deciduous species remain as well. There is some good regeneration coming in. Cut in 2002. #45-019-00-01 "Nameless Hardwoods".
42	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.0	82	Unspecified	
45	6120 - Lowland Cedar	Poletimber Well	276.9	101	Unspecified	Very low ground with areas of nothing but tag alder. Small size trees dominate with cedar and mix in slightly higher place and black spruce in low area. Not really merchantable.
46	6120 - Lowland Cedar	Poletimber Well	97.7	118	141-170	
47	429 - Mixed Upland Conifers	Poletimber Medium	0.5	46	51-80	Variable ground with mixed cover type. Some scattered large white pine.
48	4319 - Mixed Upland Forest	Poletimber Medium	45.2	28	Immature	
49	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	72.0	102	141-170	Stand has more variable ground than surrounding stand. There is a little more upland species where there is upland. Tag Alder in the lower areas.
50	6120 - Lowland Cedar	Poletimber Well	11.6	118	Unspecified	Dense cedar with scattered mix of spruce/balsam. There is a few White Pine scattered in the northern part of the stand.
51	4319 - Mixed Upland Forest	Sawtimber Well	55.7	81	111-140	Stand is the very steep ridge along the escarpment. Large Hemlock, White Pine, and Maple. Most of the Beech has died out.
52	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.4	76	81-110	Stand was thinned in 2002. #45-019-00-01 "Nameless Hardwoods" Still lower basal area, hold for next entry.
53	6139 - Mixed Lowland Forest	Poletimber Well	64.0	91	81-110	Large ridge and swale complex with mix of White pine, spruce/balsam and some deciduous. Very wet between ridges is dominated by black spruce with cedar on fringe areas.
55	429 - Mixed Upland Conifers	Poletimber Well	9.7	55	111-140	Mixed bag of balsam spruce and red maple, birch. Harvest this entry, leaving white pine and reps of maple and birch.
57	4136 - Aspen, Mixed Conifer	Sapling Medium	17.1	4	Immature	Cut in 2014. #45-108-09-01 Derek's Debut. Regeneration looks good.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42330 - Upland Fir	Poletimber Well	13.4	51	111-140	Pole stand of mixed balsam, spruce, and some mixed deciduous. Scattered WP and saw a few hemlock. Leave this stand for age class, adjacent being prescribed this entry.
4319 - Mixed Upland Forest	Poletimber Well	19.5	56	141-170	Nice mixed stand. Some scattered Cedar. Harvest this entry leaving cedar and hemlock. Leave representative spaced accordingly in stand.
4319 - Mixed Upland Forest	Poletimber Medium	6.5	33	51-80	
4112 - Maple, Beech, Cherry Association	Poletimber Well	6.2	71	81-110	
6124 - Lowland Spruce-Fir	Poletimber Well	1.3	61	141-170	Stand of pole sized black spruce mix. Some scattered cedar. Lower ground than surrounding mixed stand.
429 - Mixed Upland Conifers	Poletimber Medium	10.3	46	51-80	Variable ground with mixed cover type. Some scattered large white pine.
42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	32.9	111	111-140	Somewhat more upland, part of ridge and swale complex. Some nice White Pine on low, but steep ridges. Cedar and Balsam on fringes and black spruce and tag alder in wettest areas.
42340 - Upland Spruce/Fir	Poletimber Well	16.4	26	Immature	Stand of mixed fir with areas of aspen and maple. Just becoming a pole stand.
4112 - Maple, Beech, Cherry Association	Sawtimber Well	71.6	71	51-80	Stand has relatively low basal area 60-90. Beech has dropped out. Mostly red maple check next entry
6120 - Lowland Cedar	Poletimber Well	67.7	113	Unspecified	
6120 - Lowland Cedar	Poletimber Well	7.8	132	Unspecified	
42330 - Upland Fir	Poletimber Well	12.9	49	141-170	Stand of balsam/spruce with some decent sized aspen left in places. Harvest this entry and leave representative trees as appropriate.
4311 - Pine, Aspen Mix	Poletimber Poor	14.7	89	1-50	Stand was cut in 2011-2012. #45-115-09-01 Pinus Pipelinus.
6124 - Lowland Spruce-Fir	Poletimber Well	2.0	52	111-140	Lowland stand of mixed spruce and aspen. Wet in places with fair amount of tag alder. Scattered cedar throughout stand. Check n 10 years for growth and potential harvest accessible areas with adjacent stand.
4319 - Mixed Upland Forest	Poletimber Well	3.2	34	111-140	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
83	42110 - Planted Red Pine	Sawtimber Well	1.6	83	81-110	Large diameter Red Pine that is part of larger plantation in adjacent comp. 171 to the North. Understory is borderline pole sized mix of maple, aspen, and balsam. Harvest with comp. 171.
87	42200 - Natural White Pine	Sawtimber Poor	2.5	71	1-50	White Pine with a few scattered Red Pine residual from when adjacent RP plantation was harvested. Aspen regeneration under White Pine is looking good.
88	4134 - Aspen, Spruce/Fir	Sapling Well	22.8	26	Immature	
92	42200 - Natural White Pine	Poletimber Well	13.7	81	141-170	Most of the stand is within influence zone of large drainage. The operable part of stand consists of mostly smaller pole sized mix. Adjacent was harvested last entry. Leave for now and check it again in future entries
94	6120 - Lowland Cedar	Poletimber Well	8.9	81	141-170	Stand that is wet to very wet ground. Much smaller diameter trees than adjacent stands. Drainage in middle of stand. Plenty of tag alder where there are no trees. Cedar and spruce pretty much.
96	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	28.5	111	141-170	Smaller stand within a large cedar complex. This stand has a little more upland and deciduous along a ridge area. Access was not possible during inventory this time, relying on previous data.
97	6124 - Lowland Spruce-Fir	Sapling Medium	5.0	51	1-50	Wet ground with a few areas of upland. A few white pine where high enough ground. Lots of tag alder in wet areas.
99	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.2	101	Unspecified	Stand of smaller diameter mixed cedar and spruce. Some deciduous in the areas of relatively higher ground. Wet stand overall with Tag alder in the wettest ground. Non-productive ground in some places.
100	6120 - Lowland Cedar	Poletimber Well	97.5	118	Unspecified	More sparsely stocked stand than the neighboring stand. Very wet pockets throughout that are filled with Tag Alder.
105	4130 - Aspen	Sapling Well	2.6	15	Immature	



Stand	Cover Type	Acres	Managed Site	General Comments:
5	710 - Sand, Soil	1.7	No	Exposed sand area.
10	122 - Road/Parking Lot	4.9	No	Railroad Tracks and r.o.w.
13	122 - Road/Parking Lot	4.5	No	
14	629 - Mixed non-forested wetland	1.9	No	
20	622 - Lowland Shrub	10.1	No	
40	310 - Herbaceous Openland	26.6	No	Grass Pipeline r.o.w. Enbridge Oil pipeline.
41	310 - Herbaceous Openland	18.8	No	Grass r.o.w.. TransCanada Gas pipeline. There is a two track road that parallels the pipeline .
44	629 - Mixed non-forested wetland	35.5	No	
54	710 - Sand, Soil	0.6	No	Beach/Lake Michigan shoreline.
59	310 - Herbaceous Openland	0.4	No	Grass R.O.W. along US Highway 2.
66	629 - Mixed non-forested wetland	3.1	No	Was a strip cut done decades ago and very low wet ground. Tag Alder dominating the wettest ground and some brushy spruce scattered around where slightly higher.
71	122 - Road/Parking Lot	0.8	No	US2
76	500 - Water	1.2	No	
85	310 - Herbaceous Openland	1.6	No	
86	6229 - Mixed lowland shrub	1.8	No	
90	310 - Herbaceous Openland	6.6	No	
98	622 - Lowland Shrub	1.7	No	
103	629 - Mixed non-forested wetland	1.6	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
107	629 - Mixed non-forested wetland	1.1	No	Wetland pocket with a few Large WP in mounds of higher ground.
108	310 - Herbaceous Openland	1.2	No	Right of way between Railroad Tracks and H-40
109	3303 - Mixed Low Density Trees	1.0	No	Narrow strip of lowland grass/shrubs between road and railroad tracks. Some mixed conifer on higher edge.